

# Exchanges

## US Stocks

We currently offer real-time and historical data of US stocks listed in the S&P500, NASDAQ100, and the DJI. You can find the full list of available stocks below.

Exchange name	IN	Listed and traded	
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<div> <div></div> <div>Binance</div> </div>	binance	1359	<a href="#">View symbols</a>
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Exchanges marked as “beta” are still under active development and are meant for testing, not live trading.

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## [POST] REST – Bulk

Bulk queries provide a convenient way of fetching more than one indicator calculation in just one request. A maximum of 20 calculations is allowed for every plan, including the free plan.

### Getting started

To get started you must send a POST with a JSON body containing your query, to the endpoint **/bulk**

#### Endpoint

[POST] <https://api.taapi.io/bulk>

### Query

The query is a simple JSON object, and at the top level you will need to supply your secret token, and below that you define the **construct**. This is an object defining the basis for the query, specifically, which candle data is needed for the calculations.

Finally, the construct takes an array of **indicators**, each with it's own properties.

#### Complete query example

```
{
  "secret": "TAAPI_SECRET",
  "construct": {
    "exchange": "binance",
```

```

"symbol": "BTC/USDT",
"interval": "1h",
"indicators": [
  {
    "indicator": "rsi"
  },
  {
    "indicator": "cmf",
    "period": 20
  },
  {
    "id": "my_custom_id",
    "indicator": "macd",
    "backtrack": 1
  }
]
}

```

The **construct** takes these parameters:

Parameter	Type	Description
exchange	String	The exchange you want to calculate the indicator from: <b>binance</b> , <b>binancefutures</b> or one of our <a href="#">supported exchanges</a> . Mandatory only for type=crypto.
symbol	String	Symbol names are always uppercase, with the coin separated by a forward slash and the market: COIN/MARKET. For example: <b>BTC/USDT</b> Bitcoin to Tether, or <b>LTC/BTC</b> Litecoin to Bitcoin...
interval	String	Interval or time frame: We support the following time frames: <b>1m</b> , <b>5m</b> , <b>15m</b> , <b>30m</b> , <b>1h</b> , <b>2h</b> , <b>4h</b> , <b>12h</b> , <b>1d</b> , <b>1w</b> . So if you're interested in values on hourly candles, use <b>interval=1h</b> , for daily values use <b>interval=1d</b> , etc.
type	String	[ <b>crypto</b> , <b>stocks</b> ] Tells the query which asset type to look for. Defaults to <b>crypto</b> .
indicators	Array	An array of indicator objects. See below 'Indicators' section.

## Indicators

Each element in the above **indicators** array, must be an object containing at least one parameter: **indicator** . This is the name (or endpoint name) of the indicator. A complete list of indicators may be found [here](#).

Full indicator parameter list:

Parameter	Type	Required	Description
indicator	String	Yes	Requested indicator, please see the <a href="#">indicators</a> page for a list of indicators.
id	String	No	Custom IDs are useful so that you can keep track of which indicator call returns which result. By default, the response will show an ID comprised of <code>&lt;exchange&gt;_&lt;symbol&gt;_&lt;timeframe&gt;_&lt;indicator&gt;_&lt;[parameters]&gt;</code>
backtrack	Integer	No	The <b>backtrack</b> parameter removes candles from the data set and calculates the indicator value X amount of candles back. So, if you're fetching an indicator on the hourly and you want to know what the indicator value was 5 hours ago, set <b>backtrack=5</b> . The default is <b>0</b> and a maximum is <b>50</b> .
chart	String	No	The <b>chart</b> parameter accepts one of two values: <b>candles</b> or <b>heikinashi</b> . <b>candles</b> is the default, but if you set this to <b>heikinashi</b> , the indicator values will be calculated using Heikin Ashi candles.
results	Int/'max'	No	The number of indicator results to be returned. Ex. 5 will return the last 5 RSI results for instance. With bulk calls, you are only allowed a max of <b>20 results</b> . If you would like more results returned, please use the <a href="#">Direct Method</a> .
addResultTimestamp	Boolean	No	[ <b>true</b> , <b>false</b> ] – defaults to <b>false</b> . By setting to <b>true</b> , the API will return a timestamp with every result (real-time and historical) to which candle the value corresponds. This is helpful when requesting historical data.
gaps	Boolean	No	[ <b>true</b> , <b>false</b> ] – defaults to <b>true</b> . By setting to false, the API will ensure that there are no candles missing. This often happens on lower timeframes in thin markets. Gaps will be filled by a new candle with 0 volume, and OHLC set the the close price of the latest candle with volume.
<other>	–	Indicator dependant	Please refer to the <a href="#">indicators</a> page and see applicable parameters for the specific indicator.

# Headers

Some REST clients may need to be told explicitly which headers to use. Add these headers to the requests if the responses doesn't match the expected output.

Key	Value	Description
Content-Type	application/json	The <b>Content-Type</b> representation header is used to indicate the original media type of the resource (prior to any content encoding applied for sending).
Accept-Encoding	application/json	The <b>Accept-Encoding</b> request HTTP header indicates the content encoding (usually a compression algorithm) that the client can understand. The server uses content negotiation to select one of the proposals and informs the client of that choice with the Content-Encoding response header.

## Responses

### Response for above query

```
{
  "data": [
    {
      "id": "binance_BTC/USDT_1h_rsi_0",
      "result": {
        "value": 54.32482848167602
      },
      "errors": []
    },
    {
      "id": "binance_BTC/USDT_1h_cmf_20_0",
      "result": {
        "value": -0.08128034485998774
      },
      "errors": []
    },
    {
      "id": "my_custom_id",
      "result": {
        "valueMACD": 21.057252245545897,
        "valueMACDSignal": 13.564391223138724,
        "valueMACDHist": 7.4928610224071726
      },
      "errors": []
    }
  ]
}
```

```
]
}
```

## Examples

### NodeJS

Call taapi using your favourite REST client, or use NPM to do the heavier lifting. Please refer to the [NPM | NodeJS | TypeScript](#) guide for detailed guidelines on this.

#### Bulk NodeJS

```
// Require axios (npm i axios --save)
const axios = require("axios");

await axios.post("https://api.taapi.io/bulk", {
  "secret": "TAAPI_SECRET",
  "construct": {
    "exchange": "binance",
    "symbol": "BTC/USDT",
    "interval": "1h",
    "indicators": [
      {
        // Relative Strength Index
        "indicator": "rsi"
      },
      {
        // Chaikin Money Flow
        "indicator": "cmf",
        "period": 20 // Override the default 14
      },
      {
        // MACD Backtracked 1
        "id": "my_custom_id",
        "indicator": "macd",
        "backtrack": 1
      }
    ]
  }
}).then( response => {
  console.log(response);
}).catch( error => {
  console.error(error)
});
```



## PHP

Use the built in tools in PHP and make CURL request, or use [Packagist.org](https://packagist.org) | [PHP Composer](#) to make life easier.

### Bulk Native PHP

<?php

```
// Define endpoint
$url = "https://api.taapi.io/bulk";

// Create curl resource
$ch = curl_init( $url );

// Setup query with JSON payload to be sent via POST.
$query = json_encode( (object) array(

    "secret" => "TAAPI_SECRET",
    "construct" => (object) array(
        "exchange" => "binance",
        "symbol" => "BTC/USDT",
        "interval" => "1h",
        "indicators" => array(
            (object) array(
                // Relative Strength Index
                "indicator" => "rsi"
            ),
            (object) array(
                // Chaikin Money Flow
                "indicator" => "cmf",
                "period" => 20,
            ),
            (object) array(
                // MACD Backtracked 1
                "id" => "my_custom_id",
                "indicator" => "macd",
                "backtrack" => 1
            ),
        )
    )
);

// Add query to CURL
curl_setopt( $ch, CURLOPT_POSTFIELDS, $query );
```

```
// Define the content-type to JSON
curl_setopt( $ch, CURLOPT_HTTPHEADER, array('Content-Type:application/json'));

// Return response instead of printing.
curl_setopt( $ch, CURLOPT_RETURNTRANSFER, true );

// Send request.
$result = curl_exec($ch);

// Close curl resource to free up system resources
curl_close($ch);

// View result
print_r(json_decode($result)->data);
```

## Python

### Bulk Python

```
import requests

url = "https://api.taapi.io/bulk"

payload = {
    "secret": "TAAPI_SECRET",
    "construct": {
        "exchange": "binance",
        "symbol": "BTC/USDT",
        "interval": "1h",
        "indicators": [
            {
                "indicator": "rsi"
            }, {
                "indicator": "ema",
                "period": 20
            },
            {
                "indicator": "macd"
            },
            {
                "indicator": "kdj"
            }
        ]
    }
}
```

```
headers = {"Content-Type": "application/json"}

response = requests.request("POST", url, json=payload, headers=headers)

print(response.text)
```

## Multiple Constructs

Multiple constructs are a way of fetching indicator values across multiple and different candle sets. Examples might include different timeframes: **binance:BTC/USDT:15m** and **binance:BTC/USDT:1h** or different assets **binance:XRP/USDT:1d** , or even a different exchange: **bybit:BTC/USDT:5m** .

The same goes for stocks: **AAPL:15m** and **AAPL:1h** , or **MSFT:1h** and **TSLA:1h** .

Please visit our [Multiple Constructs](#) page for more information.

## Rate limits

Bulk queries help you get the most out of your plan while making the queries more efficient. 1 bulk query = 1 API request, even if you include 20 different indicators inside. So you can get up to 20 calculations in a response by only spending 1 API request.

Multiple constructs are limited according to your plan. For instance, the [Expert Plan](#), will allow you **10 different constructs** .

Using the ‘results’ optional parameter, is limited to 20 results per calculation. If you’re looking for more results, please use the [Direct Method](#).

## That’s it!

As always, feedback, comments are greatly appreciated!

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## [POST] REST – Manual

Use this method if you want to use your own price data and use TAAPI to calculate the indicators from the provided dataset. To query the API you need to submit a POST request to: <https://api.taapi.io> with at least the mandatory parameters.

### POST

```
https://api.taapi.io/rsi
```

You can calculate TA off of any candle set you have. Using this method requires sending a simple post including the candle data for which to calculate an indicator value.

## Getting started

Submit a post with parameters in the request body to the above endpoint which includes your 'secret' and a 'candles' parameter containing the candles in JSON. The candles must be sent as objects with the below keys in an array:

- open: A float, containing the open price of the candle
- high: A float, containing the high price of the candle
- low: A float, containing the low price of the candle
- close: A float, containing the close price of the candle
- volume: A float, containing the volume of the candle

Candles must be submitted in ascending order, being the latest / newest candle last.

Example:

```
[
  {
    "timestamp": 1571320286000, // In milliseconds, optional
    "open": 238.32,
    "high": 343.12,
    "low": 125.94,
    "close": 243.48,
    "volume": 84342.84823
  },
  {
    "timestamp": 1571320286000, // In milliseconds, optional
    "open": 238.32,
    "high": 343.12,
    "low": 125.94,
    "close": 243.48,
    "volume": 84342.84823
  },
  ... n candles
]
```

The amount of candles depends on which indicator is used. If not sure, then send 300 candles. This amount will work for more or less all indicators. However, you can only send a maximum of 500 candles.

## Mandatory Parameters

Below a list of mandatory post parameters, needed to query the API:

| Parameter | Type                             | Description   |
|-----------|----------------------------------|---|
| secret    | String                           | The secret which is emailed to you when you <a href="#">Request an API key</a> .                    |
| candles   | JSON (array with candle objects) | A JSON encoded array of objects containing candle information, ascending order (as described above) |

## Optional Parameters

There are no optional paramters for this integration method, other than the ones stated for each indicator on the [Indicator endpoints page](#).

## Examples

## NodeJS

```
// Require axios: npm i axios
const axios = require('axios');

const indicator = 'rsi';

axios.post(`https://api.taapi.io/${indicator}`, {
  secret: MY_SECRET,
  candles: [{...}]
})
.then(function (response) {
  console.log(response.data);
})
.catch(function (error) {
  console.log(error);
});
```

## PHP

```
<?php

$indicator = 'rsi';

$parameters = json_encode(array(
  "secret" => 'MY_SECRET',
  'candles' => [{...}] // Candles in json
));

// Prepare new cURL resource
$ch = curl_init("https://api.taapi.io/{$indicator}");
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
curl_setopt($ch, CURLINFO_HEADER_OUT, true);
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, $parameters);

// Set HTTP Header for POST request
curl_setopt($ch, CURLOPT_HTTPHEADER, array(
  'Content-Type: application/json',
  'Content-Length: ' . strlen($canldes))
);

// Submit the POST request
$result = curl_exec($ch);
```

```
// Close cURL session handle
curl_close($ch);

// View result
print_r(json_decode($result));
```

## Python

```
# import the requests library
import requests

# Get candles from your own source
candles = [...]; # Candles in json

# Define indicator
indicator = "rsi"

# Define endpoint
endpoint = f"https://api.taapi.io/{indicator}"

# Parameters to be sent to API
parameters = {
    'secret': 'MY_SECRET',
    'candles': candles
}

# Send post request and save response as response object
response = requests.post(url = endpoint, json = parameters)

# Extract data in json format
result = response.json()

# Print result
print(result)
```

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## Indicator endpoints

On this page you will find the complete list of the 203 indicators that TAAPI.IO offers. Click the individual indicators for more information, such as which parameters to use, example API calls etc.

All indicators

| Endpoint       | Name  | Category            |
|----------------|---|---------------------|
| 2crows         | <a href="#">Two Crows</a>                                 | Pattern recognition |
| 3blackcrows    | <a href="#">Three Black Crows</a>                         | Pattern recognition |
| 3inside        | <a href="#">Three Inside Up/Down</a>                      | Pattern recognition |
| 3linestrike    | <a href="#">Three-Line Strike</a>                         | Pattern recognition |
| 3outside       | <a href="#">Three Outside Up/Down</a>                     | Pattern recognition |
| 3starsinsouth  | <a href="#">Three Stars In The South</a>                  | Pattern recognition |
| 3whitesoldiers | <a href="#">Three Advancing White Soldiers</a>            | Pattern recognition |
| abandonedbaby  | <a href="#">Abandoned Baby</a>                            | Pattern recognition |
| abs            | <a href="#">Vector Absolute Value</a>                     | Math Transform      |
| accbands       | <a href="#">Acceleration Bands</a>                        | Overlap Studies     |
| ad             | <a href="#">Chaikin A/D Line</a>                          | Volume              |
| add            | <a href="#">Vector Arithmetic Add</a>                     | Math Operators      |
| adosc          | <a href="#">Chaikin A/D Oscillator</a>                    | Volume              |
| advanceblock   | <a href="#">Advance Block</a>                             | Pattern recognition |
| adx            | <a href="#">Average Directional Movement Index</a>        | Momentum            |
| adxr           | <a href="#">Average Directional Movement Index Rating</a> | Momentum            |
| ao             | <a href="#">Awesome Oscillator</a>                        | Momentum            |
| apo            | <a href="#">Absolute Price Oscillator</a>                 | Momentum            |
| aroon          | <a href="#">Aroon</a>                                     | Momentum            |
| aroonosc       | <a href="#">Aroon Oscillator</a>                          | Momentum            |

| Endpoint                     | Name  | Category   |
|------------------------------|---|--|
| atan                         | <a href="#">Vector Trigonometric ATan</a>         | Math Transform                                       |
| atr                          | <a href="#">Average True Range</a>                | Volatility   |
| avgprice                     | <a href="#">Average Price</a>                     | Price  |
| bbands Popular               | <a href="#">Bollinger Bands</a>                   | Overlap Studies, Trend, Volatility                   |
| belthold                     | <a href="#">Belt-hold</a>                         | Pattern recognition                                  |
| beta                         | <a href="#">Beta</a>                              | Statistic functions                                  |
| bop                          | <a href="#">Balance Of Power</a>                  | Momentum   |
| breakaway                    | <a href="#">Breakaway</a>                         | Pattern recognition                                  |
| candle Popular               | <a href="#">Candle</a>                            | Price  |
| candles                      | <a href="#">Candles</a>                           | Price  |
| cci Popular                  | <a href="#">Commodity Channel Index</a>           | Momentum   |
| ceil                         | <a href="#">Vector Ceil</a>                       | Math Transform                                       |
| chop                         | <a href="#">Choppiness Index (CHOP)</a>           | Oscillators  |
| closingmarubozu              | <a href="#">Closing Marubozu</a>                  | Pattern recognition                                  |
| cmf Popular                  | <a href="#">Chaikin Money Flow</a>                | Volume   |
| cmo                          | <a href="#">Chande Momentum Oscillator</a>        | Momentum, Oscillators                                |
| concealbabyswall             | <a href="#">Concealing Baby Swallow</a>           | Pattern recognition                                  |
| coppockcurve                 | <a href="#">Coppock Curve</a>                     | Oscillators, Overlap Studies                         |
| correl                       | <a href="#">Pearson's Correlation Coefficient</a> | Statistic functions                                  |
| cos                          | <a href="#">Vector Trigonometric Cos</a>          | Math Transform                                       |
| counterattack                | <a href="#">Counterattack</a>                     | Pattern recognition                                  |
| darkcloudcover               | <a href="#">Dark Cloud Cover</a>                  | Pattern recognition                                  |
| dema                         | <a href="#">Double Exponential Moving Average</a> | Overlap Studies                                      |
| div                          | <a href="#">Vector Arithmetic Div</a>             | Math Operators                                       |
| dm                           | <a href="#">Directional Movement</a>              | Oscillators, Trend                                   |
| dmi Popular                  | <a href="#">Directional Movement Index</a>        | Oscillators, Trend                                   |
| doji Popular                 | <a href="#">Doji</a>                              | Pattern recognition                                  |
| dojistar                     | <a href="#">Doji Star</a>                         | Pattern recognition                                  |
| donchianchannels             | <a href="#">Donchian Channels</a>                 | Bands, Breakouts, Overlap Studies, Trend, Volatility |
| dpo                          | <a href="#">Detrended Price Oscillator</a>        | Oscillators  |
| dragonflydoji                | <a href="#">Dragonfly Doji</a>                    | Pattern recognition                                  |
| dx                           | <a href="#">Directional Movement Index</a>        | Momentum, Oscillators                                |
| ema Popular Updated          | <a href="#">Exponential Moving Average (EMA)</a>  | Overlap Studies                                      |
| engulfing                    | <a href="#">Engulfing Pattern</a>                 | Pattern recognition                                  |
| eom                          | <a href="#">Ease of Movement</a>                  | Oscillators  |
| eveningdojistar              | <a href="#">Evening Doji Star</a>                 | Pattern recognition                                  |
| eveningstar                  | <a href="#">Evening Star</a>                      | Pattern recognition                                  |
| fibonacciretracement Popular | <a href="#">Fibonacci Retracement</a>             | Overlap Studies                                      |
| fisher                       | <a href="#">Fisher Transform</a>                  |  |

| Endpoint            | Name   | Category                    |
|---------------------|--|-----------------------------|
| floor               | <a href="#"><u>Vector Floor</u></a>  | Math Transform              |
| fosc                | <a href="#"><u>Forecast Oscillator</u></a>                                   | Oscillators                 |
| gapsidesidewhite    | <a href="#"><u>Up/Down-gap side-by-side white lines</u></a>                  | Pattern recognition         |
| gravestonedoji      | <a href="#"><u>Gravestone Doji</u></a>                                       | Pattern recognition         |
| hammer              | <a href="#"><u>Hammer</u></a>  | Pattern recognition         |
| hangingman          | <a href="#"><u>Hanging Man</u></a>   | Pattern recognition         |
| harami              | <a href="#"><u>Harami Pattern</u></a>  | Pattern recognition         |
| haramicross         | <a href="#"><u>Harami Cross Pattern</u></a>                                  | Pattern recognition         |
| highwave            | <a href="#"><u>High-Wave Candle</u></a>                                      | Pattern recognition         |
| hikkake             | <a href="#"><u>Hikkake Pattern</u></a>                                       | Pattern recognition         |
| hikkakemod          | <a href="#"><u>Modified Hikkake Pattern</u></a>                              | Pattern recognition         |
| hma Popular         | <a href="#"><u>Hull Moving Average</u></a>                                   | Overlap Studies             |
| homingpigeon        | <a href="#"><u>Homing Pigeon</u></a>   | Pattern recognition         |
| ht_dcperiod         | <a href="#"><u>Hilbert Transform – Dominant Cycle Period</u></a>             |                             |
| ht_dcphase          | <a href="#"><u>Hilbert Transform – Dominant Cycle Phase</u></a>              |                             |
| ht_phasor           | <a href="#"><u>Hilbert Transform – Phasor Components</u></a>                 |                             |
| ht_sine             | <a href="#"><u>Hilbert Transform – SineWave</u></a>                          |                             |
| ht_trendline        | <a href="#"><u>Hilbert Transform – Instantaneous Trendline</u></a>           | Overlap Studies             |
| ht_trendmode        | <a href="#"><u>Hilbert Transform – Trend vs Cycle Mode</u></a>               |                             |
| ichimoku Popular    | <a href="#"><u>Ichimoku Cloud</u></a>  | Momentum, Overlap Studies   |
| identical3crows     | <a href="#"><u>Identical Three Crows</u></a>                                 | Pattern recognition         |
| inneck              | <a href="#"><u>In-Neck Pattern</u></a>                                       | Pattern recognition         |
| invertedhammer      | <a href="#"><u>Inverted Hammer</u></a>                                       | Pattern recognition         |
| kama                | <a href="#"><u>Kaufman Adaptive Moving Average</u></a>                       | Overlap Studies             |
| kdj                 | <a href="#"><u>KDJ</u></a>   | Overlap Studies             |
| keltnerchannels     | <a href="#"><u>Keltner Channels</u></a>                                      | Overlap Studies, Volatility |
| kicking             | <a href="#"><u>Kicking</u></a>   | Pattern recognition         |
| kickingbylength     | <a href="#"><u>Kicking – bull/bear determined by the longer marubozu</u></a> | Pattern recognition         |
| kvo                 | <a href="#"><u>Klinger Volume Oscillator</u></a>                             | Oscillators                 |
| ladderbottom        | <a href="#"><u>Ladder Bottom</u></a>   | Pattern recognition         |
| linearreg           | <a href="#"><u>Linear Regression</u></a>                                     | Statistic functions         |
| linearreg_angle     | <a href="#"><u>Linear Regression Angle</u></a>                               | Statistic functions         |
| linearreg_intercept | <a href="#"><u>Linear Regression Intercept</u></a>                           | Statistic functions         |
| linearreg_slope     | <a href="#"><u>Linear Regression Slope</u></a>                               | Statistic functions         |
| ln                  | <a href="#"><u>Vector Log Natural</u></a>                                    | Math Transform              |
| log10               | <a href="#"><u>Vector Log10</u></a>  | Math Transform              |
| longleggeddoji      | <a href="#"><u>Long Legged Doji</u></a>                                      | Pattern recognition         |
| longline            | <a href="#"><u>Long Line Candle</u></a>                                      | Pattern recognition         |

| Endpoint            | Name  | Category                                     |
|---------------------|---|--|
| ma Popular          | <a href="#"><u>Moving Average</u></a>   | Overlap Studies                              |
| macd Popular        | <a href="#"><u>Moving Average Convergence Divergence (MACD)</u></a>                 | Momentum                                     |
| macdext             | <a href="#"><u>MACD with controllable MA type</u></a>                               | Momentum                                     |
| mama                | <a href="#"><u>MESA Adaptive Moving Average</u></a>                                 | Overlap Studies                              |
| marketfi            | <a href="#"><u>Market Facilitation Index</u></a>                                    | Momentum, Trend, Volume                      |
| marubozu            | <a href="#"><u>Marubozu</u></a>   | Pattern recognition                          |
| mass                | <a href="#"><u>Mass Index</u></a>   | Volatility                                   |
| matchinglow         | <a href="#"><u>Matching Low</u></a>   | Pattern recognition                          |
| mathold             | <a href="#"><u>Mat Hold</u></a>   | Pattern recognition                          |
| max                 | <a href="#"><u>Highest value over a specified period</u></a>                        | Math Operators                               |
| maxindex            | <a href="#"><u>Index of highest value over a specified period</u></a>               | Math Operators                               |
| medprice            | <a href="#"><u>Median Price</u></a>   | Price  |
| mfi Popular         | <a href="#"><u>Money Flow Index</u></a>   | Momentum, Oscillators                        |
| midpoint            | <a href="#"><u>MidPoint over period</u></a>   | Overlap Studies                              |
| midprice            | <a href="#"><u>Midpoint Price over period</u></a>                                   | Overlap Studies                              |
| min                 | <a href="#"><u>Lowest value over a specified period</u></a>                         | Math Operators                               |
| minindex            | <a href="#"><u>Index of lowest value over a specified period</u></a>                | Math Operators                               |
| minmax              | <a href="#"><u>Lowest and highest values over a specified period</u></a>            | Math Operators                               |
| minmaxindex         | <a href="#"><u>Indexes of lowest and highest values over a specified period</u></a> | Math Operators                               |
| minus_di            | <a href="#"><u>Minus Directional Indicator</u></a>                                  | Momentum                                     |
| minus_dm            | <a href="#"><u>Minus Directional Movement</u></a>                                   | Momentum                                     |
| mom Popular         | <a href="#"><u>Momentum</u></a>   | Momentum                                     |
| morningdojistar     | <a href="#"><u>Morning Doji Star</u></a>  | Pattern recognition                          |
| morningstar         | <a href="#"><u>Morning Star</u></a>   | Pattern recognition                          |
| msw                 | <a href="#"><u>Mesa Sine Wave</u></a>   |  |
| mul                 | <a href="#"><u>Vector Multiplication</u></a>  | Math Transform                               |
| mult                | <a href="#"><u>Vector Arithmetic Mult</u></a>                                       | Math Operators                               |
| natr                | <a href="#"><u>Normalized Average True Range</u></a>                                | Volatility                                   |
| nvi                 | <a href="#"><u>Negative Volume Index</u></a>  | Volume                                       |
| obv                 | <a href="#"><u>On Balance Volume</u></a>  | Volume                                       |
| onneck              | <a href="#"><u>On-Neck Pattern</u></a>  | Pattern recognition                          |
| pd                  | <a href="#"><u>Price direction</u></a>  | Momentum, Oscillators                        |
| piercing            | <a href="#"><u>Piercing Pattern</u></a>   | Pattern recognition                          |
| pivotpoints Popular | <a href="#"><u>Pivot points</u></a>   | Overlap Studies, Support & Resistance, Trend |
| plus_di             | <a href="#"><u>Plus Directional Indicator</u></a>                                   | Momentum                                     |
| plus_dm             | <a href="#"><u>Plus Directional Movement</u></a>                                    | Momentum                                     |
| ppo                 | <a href="#"><u>Percentage Price Oscillator</u></a>                                  | Momentum, Oscillators                        |

| Endpoint                   | Name   | Category                        |
|----------------------------|--|---------------------------------|
| price                      | <a href="#"><u>Price</u></a>   | Price                           |
| priorswinghigh             | <a href="#"><u>Prior Swing High</u></a>                              | Price                           |
| priorswinglow              | <a href="#"><u>Prior Swing Low</u></a>                               | Price                           |
| psar Popular Updated       | <a href="#"><u>Parabolic SAR</u></a>                                 | Overlap Studies, Trend          |
| pvi                        | <a href="#"><u>Positive Volume Index</u></a>                         | Volume                          |
| qstick                     | <a href="#"><u>Qstick</u></a>  | Trend                           |
| rickshawman                | <a href="#"><u>Rickshaw Man</u></a>                                  | Pattern recognition             |
| risefall3methods           | <a href="#"><u>Rising/Falling Three Methods</u></a>                  | Pattern recognition             |
| roc Popular                | <a href="#"><u>Rate of change</u></a>                                | Momentum, Oscillators, Trend    |
| rocp                       | <a href="#"><u>Rate of change Percentage</u></a>                     | Momentum                        |
| rocr                       | <a href="#"><u>Rate of change ratio</u></a>                          | Momentum                        |
| rocr100                    | <a href="#"><u>Rate of change ratio 100 scale</u></a>                | Momentum                        |
| round                      | <a href="#"><u>Vector Round</u></a>                                  | Math Transform                  |
| rsi Popular                | <a href="#"><u>Relative Strength Index (RSI)</u></a>                 | Momentum, Oscillators           |
| separatinglines            | <a href="#"><u>Separating Lines</u></a>                              | Pattern recognition             |
| shootingstar               | <a href="#"><u>Shooting Star</u></a>                                 | Pattern recognition             |
| shortline                  | <a href="#"><u>Short Line Candle</u></a>                             | Pattern recognition             |
| sin                        | <a href="#"><u>Vector Trigonometric Sin</u></a>                      | Math Transform                  |
| sma                        | <a href="#"><u>Simple Moving Average</u></a>                         | Overlap Studies                 |
| smma                       | <a href="#"><u>Smoothed Moving Average (SMMA)</u></a>                | Overlap Studies, Trend          |
| spinningtop                | <a href="#"><u>Spinning Top</u></a>                                  | Pattern recognition             |
| sqrt                       | <a href="#"><u>Vector Square Root</u></a>                            | Math Operators                  |
| stalledpattern Popular     | <a href="#"><u>Stalled Pattern</u></a>                               | Pattern recognition             |
| stddev Popular             | <a href="#"><u>Standard Deviation</u></a>                            | Statistic functions, Volatility |
| sticksandwich              | <a href="#"><u>Stick Sandwich</u></a>                                | Pattern recognition             |
| stoch Popular Updated      | <a href="#"><u>Stochastic</u></a>                                    | Momentum, Oscillators           |
| stochf                     | <a href="#"><u>Stochastic Fast</u></a>                               | Momentum, Oscillators           |
| stochrsi Popular Updated   | <a href="#"><u>StochRSI – Stochastic Relative Strength Index</u></a> | Momentum, Oscillators           |
| sub                        | <a href="#"><u>Vector Arithmetic Substraction</u></a>                | Math Operators                  |
| sum                        | <a href="#"><u>Summation</u></a>                                     | Math Operators                  |
| supertrend Popular Updated | <a href="#"><u>Supertrend</u></a>                                    | Momentum, Trend                 |
| t3                         | <a href="#"><u>Triple Exponential Moving Average (T3)</u></a>        | Overlap Studies                 |
| takuri                     | <a href="#"><u>Takuri</u></a>  | Pattern recognition             |
| tan                        | <a href="#"><u>Vector Trigonometric Tan</u></a>                      | Math Transform                  |
| tanh                       | <a href="#"><u>Vector Trigonometric Tanh</u></a>                     | Math Transform                  |
| tasukigap                  | <a href="#"><u>Tasuki Gap</u></a>                                    | Pattern recognition             |
| tdsequential Popular       | <a href="#"><u>Tom Demark's Sequential</u></a>                       | Momentum                        |
| tema                       | <a href="#"><u>Triple Exponential Moving Average</u></a>             | Overlap Studies                 |
| thrusting                  | <a href="#"><u>Thrusting Pattern</u></a>                             | Pattern recognition             |

| Endpoint         | Name                                      | Category              |
|------------------|---|-----------------------|
| todeg            | <a href="#">Vector Degree Conversion</a>  | Math Transform        |
| torad            | <a href="#">Vector Radian Conversion</a>  | Math Transform        |
| tr Popular       | <a href="#">True range</a>                | Price                 |
| trima            | <a href="#">Triangular Moving Average</a> | Overlap Studies       |
| tristar          | <a href="#">Tristar Pattern</a>           | Pattern recognition   |
| trix Popular     | <a href="#">TRIX</a>                      | Momentum, Oscillators |
| trunc            | <a href="#">Vector Truncate</a>           | Math Transform        |
| tsf              | <a href="#">Time Series Forecast</a>      | Statistic functions   |
| typprice Popular | <a href="#">Typical Price</a>             | Price                 |
| ultosc Popular   | <a href="#">Ultimate Oscillator</a>       | Momentum, Oscillators |



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|                   |  |                         |
|-------------------|--|-------------------------|
| vosc              | <a href="#">Volume Oscillator</a>                        | Oscillators, Volume     |
| vwap Popular      | <a href="#">Volume Weighted Average Price (VWAP)</a>     | Overlap Studies, Volume |
| vwma              | <a href="#">Volume Weighted Moving Average</a>           | Overlap Studies, Volume |
| wad               | <a href="#">Williams Accumulation/Distribution (A/D)</a> | Momentum                |
| wclprice          | <a href="#">Weighted Close Price</a>                     | Price                   |
| wilders           | <a href="#">Wilders Smoothing</a>                        | Overlap Studies         |
| williamsalligator | <a href="#">Williams Alligator</a>                       | Overlap Studies, Trend  |
| willr             | <a href="#">Williams' %R</a>                             | Momentum                |
| wma               | <a href="#">Weighted Moving Average</a>                  | Overlap Studies         |
| xsidegap3methods  | <a href="#">Upside/Downside Gap Three Methods</a>        | Pattern recognition     |
| zlema             | <a href="#">Zero-Lag Exponential Moving Average</a>      | Overlap Studies         |

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## [GET] REST – Direct

You can query the API with a simple GET request. All that is needed is to send your request to: <https://api.taapi.io> with at least the mandatory parameters. Additionally, this is the endpoint you need for fetching historical data.

### Pros

- Easy to get started
- Works with NodeJS, PHP, Python, Ruby, Curl or via browser
- Historical data

## Getting started

To get started, simply make an HTTPS GET Request or call in your browser:

### GET

```
https://api.taapi.io/rsi?secret=API_KEY&exchange=binance&symbol=BTC/USDT&interval=1h
```

A JSON Response is returned:

```
{  
  "value": 69.8259211745199  
}
```

## Mandatory Parameters

Our Direct method requires these parameters:

| Parameter | Type   | Description   |
|-----------|--------|---|
| secret    | String | The secret which is emailed to you when you <a href="#">Request an API key</a> .  |
| exchange  | String | The exchange you want to calculate the indicator from: <b>binance</b> , <b>binancefutures</b> or one of our <a href="#">supported exchanges</a> . Mandatory for type=crypto only.   |
| symbol    | String | Symbol names are always uppercase, with the coin separated by a forward slash and the market: COIN/MARKET. For example: <b>BTC/USDT</b> Bitcoin to Tether, or <b>LTC/BTC</b> Litecoin to Bitcoin...   |
| interval  | String | Interval or time frame: We support the following time frames: <b>1m</b> , <b>5m</b> , <b>15m</b> , <b>30m</b> , <b>1h</b> , <b>2h</b> , <b>4h</b> , <b>12h</b> , <b>1d</b> , <b>1w</b> . So if you're interested in values on hourly candles, use <b>interval=1h</b> , for daily values use <b>interval=1d</b> , etc. |

Depending on the indicator you call, there may or may not be more mandatory parameters. Additionally, there may be several other optional parameters, also depending on the indicator. Please refer to the [Indicators page](#) for more information.

## Optional Parameters

Below is a list of optional parameters that all the indicators will take:

| Parameter | Type      | Description  |
|-----------|-----------|--|
| backtrack | Integer   | The <b>backtrack</b> parameter removes candles from the data set and calculates the indicator value X amount of candles back. So, if you're fetching an indicator on the hourly and you want to know what the indicator value was 5 hours ago, set <b>backtrack=5</b> . The default is <b>0</b> and a maximum is <b>50</b> . |
| chart     | String    | The <b>chart</b> parameter accepts one of two values: <b>candles</b> or <b>heikinashi</b> . <b>candles</b> is the default, but if you set this to <b>heikinashi</b> , the indicator values will be calculated using Heikin Ashi candles.   |
| type      | String    | [crypto, stocks] – defaults to 'crypto'. This tells which asset class you're querying.   |
| results   | Int/"max" | The number of indicator results to be returned. Ex. <b>20</b> will return the last <b>20</b> RSI results, for instance. Setting <b>max</b> as a string will return either every historical data point available or the <b>max</b> allowed by your plan.  |

| Parameter          | Type    | Description   |
|--------------------|---------|---|
| addResultTimestamp | Boolean | [ <a href="#">true</a> , <a href="#">false</a> ] – defaults to <a href="#">false</a> . By setting to <a href="#">true</a> the API will return a timestamp with every result (real-time and historical) to which candle the value corresponds. This is helpful when requesting historical data.  |
| gaps               | Boolean | [ <a href="#">true</a> , <a href="#">false</a> ] – defaults to <a href="#">true</a> . By setting to false, the API will ensure that there are no candles missing. This often happens on lower timeframes in thin markets. Gaps will be filled by a new candle with 0 volume, and OHLC set the the close price of the latest candle with volume. |

## Headers

Some REST clients may need to be told explicitly which headers to use. Add these headers to the requests if the responses doesn't match the expected output.

| Key             | Value            | Description  |
|-----------------|------------------|--|
| Content-Type    | application/json | The <a href="#">Content-Type</a> representation header is used to indicate the original media type of the resource (prior to any content encoding applied for sending).  |
| Accept-Encoding | application/json | The <a href="#">Accept-Encoding</a> request HTTP header indicates the content encoding (usually a compression algorithm) that the client can understand. The server uses content negotiation to select one of the proposals and informs the client of that choice with the Content-Encoding response header. |

## Tools & Wrappers

TA-API.IO comes with a variety of 3rd party integrations and wrappers, some of which includes [NPM](#), [PHP](#) and 'no-code' integrations such as [Make](#). Please take a moment to go through this list [Utilities / 3rd party integrations](#).

## Examples

Below you'll find some examples, how to connect, authenticate and query the API:

### NodeJS

Javascript is a great language for coding bots, and using the NodeJS package makes it even simpler. Please refer to the [NPM | NodeJS | TypeScript](#) guide for detailed guidelines on this. Or

simply call taapi directly using Axios.

### NPM - CommonJS

```
// Require taapi (using the NPM client: npm i taapi --save)
const Taapi = require("taapi");

// Setup client with authentication
const taapi = new Taapi.default("TAAPI_SECRET");

taapi.getIndicator("rsi", "BTC/USDT", "1h").then( rsi => {
  console.log(rsi);
});
```

### NPM - TypeScript

```
// Import
import Taapi from 'taapi';

// Init taapi
const taapi = new Taapi("TAAPI_SECRET");

taapi.getIndicator("rsi", "BTC/USDT", "1h").then( rsi => {
  console.log(rsi);
});
```

### NPM - Stocks

```
// Import
import Taapi from 'taapi';

// Init taapi
const taapi = new Taapi("TAAPI_SECRET");

taapi.getIndicator("rsi", "AAPL", "1h", {
  type: "stocks",
}).then( rsi => {
  console.log(rsi);
});
```

### Axios

```
// Require axios: npm i axios
var axios = require('axios');
```

```
axios.get('https://api.taapi.io/rsi', {
  params: {
    secret: "TAAPI_SECRET",
    exchange: "binance",
    symbol: "BTC/USDT",
    interval: "1h",
  }
})
.then(function (response) {
  console.log(response.data);
})
.catch(function (error) {
  console.log(error.response.data);
});
```

## PHP

Use the built in tools in PHP and make CURL request, or use [Packagist.org | PHP Composer](#) to make life easier.

### Packagist.org | PHP Composer

```
<?php

// Require taapi single
require 'vendor/taapi/php-client/single.php';

// Init taapi
$taapi = new TaapiSingle("TAAPI_SECRET");

// Calculate indicator
$result = $taapi->execute("rsi", "binance", "BTC/USDT", "1h", array(
  "period" => 200,
  "backtrack" => 1
));

// Print result
echo "RSI: $result->value";
```

### Native PHP

```
<?php
```

```

$endpoint = 'rsi';

$query = http_build_query(array(
    'secret' => 'TAAPI_SECRET',
    'exchange' => 'binance',
    'symbol' => 'BTC/USDT',
    'interval' => '1h'
));

// Define endpoint
$url = "https://api.taapi.io/{$endpoint}?{$query}";

// create curl resource
$ch = curl_init();

// set url
curl_setopt($ch, CURLOPT_URL, $url);

//return the transfer as a string
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);

// $output contains the output string
$output = curl_exec($ch);

// close curl resource to free up system resources
curl_close($ch);

// View result
print_r(json_decode($output));

```

## Python

### Python

```

# Import the requests library
import requests

# Define indicator
indicator = "rsi"

# Define endpoint
endpoint = f"https://api.taapi.io/{indicator}"

# Define a parameters dict for the parameters to be sent to the API
parameters = {

```

```
'secret': 'TAAPI_SECRET',  
'exchange': 'binance',  
'symbol': 'BTC/USDT',  
'interval': '1h'  
}
```

```
# Send get request and save the response as response object  
response = requests.get(url = endpoint, params = parameters)
```

```
# Extract data in json format  
result = response.json()
```

```
# Print result  
print(result)
```

## Ruby

### Ruby

```
require 'net/http'  
uri = URI("https://api.taapi.io/rsi?secret=TAAPI_SECRET&exchange=binance&symbol=BTC/USDT&interval=1h")  
puts Net::HTTP.get(uri)
```

## Curl

### Curl

```
curl "https://api.taapi.io/rsi?secret=TAAPI_SECRET&exchange=binance&symbol=BTC/USDT&interval=1h"
```

## That's it!

As always, feedback, comments are greatly appreciated!

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## Integration

Here you will find all the information you need to successfully integrate TAAPI.IO into your trading project.

TAAPI.IO is a service specialised at calculating Technical Analysis (TA) or often referred to as [indicators](#). We provide real-time price data and TA calculations on any crypto trading pair listed on Binance and other exchanges listed on our [Exchanges page](#), as well as the most popular [US Stocks and ETFs](#). Lastly, if you have your own candles, perhaps as a historical data set, you can send them to the API and do calculations on those.

Where ever the term Indicator is used in this documentation, please refer to the [Indicators documentation](#).

### Different integration methods available:

#### [\[GET\] REST – Direct](#)

Calculate indicators using real-time price data directly from the exchange of your choice (US Stocks, ETFs, Binance, Binance Futures, Bitstamp, Gate.io, ByBit and other supported exchanges). This method is great for fetching historical data.

[View tutorial](#)

#### [\[POST\] Bulk](#)

Bulk queries provide a convenient way of fetching more than one indicator calculation in just one request. This is great for fetching all the TA you need for a full evaluation of an asset, in just one request. For instance, fetch the RSI, MACD EMA200 all at once.

[View tutorial](#)

#### [\[POST\] REST – Manual](#)

Calculate indicators from any price data set (candles) you POST to the API. This may be from any Crypto, Stock, Futures, Bonds, Forex Exchanges where you have data from. You can even stack indicators, do additional smoothing by calculating an EMA5 over a series of RSI results or calculate the RSI of the EMA50 if that might have a usecase.

[View tutorial](#)

### [3rd Party Utilitites](#)

TAAPI.IO provides a variety of utilities and third party integrations that make it easy to use the API even without writing any code.

[View utilities](#)

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[Home](#) – [Exchanges](#) – Binance Futures

## Binance Futures



The worlds biggest bitcoin exchange and altcoin crypto exchange in the world by volume. [Register here](#) and save 10% on commissions thanks to being referred by TAAPI.IO.

### Available intervals

1m 3m 5m 15m 30m 1h 2h 4h 6h 8h 12h 1d 1w

### Get started with **binancefutures**

To query symbols from Binance Futures, simply use **binancefutures** as the required exchange parameter.

```
[GET] https://api.taapi.io/rsi?secret=MY_SECRET&exchange=binancefutures&symbol=BTC/USD
```



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```
[GET] https://api.taapi.io/exchange-symbols?secret=MY_SECRET&exchange=binancefutures
```

The list is updated daily at 12:00 UTC.

## Up-to-date list of available symbols

|            |               |               |                |               |
|------------|---------------|---------------|----------------|---------------|
| BTC/USDT   | SUSHI/USDT    | BTCDOM/USDT   | CFX/USDT       | WAXP/USDT     |
| ETH/USDT   | EGLD/USDT     | IOTX/USDT     | STX/USDT       | BSV/USDT      |
| BCH/USDT   | SOL/USDT      | C98/USDT      | BNX/USDT       | RIF/USDT      |
| XRP/USDT   | ICX/USDT      | MASK/USDT     | ACH/USDT       | POLYX/USDT    |
| EOS/USDT   | STORJ/USDT    | ATA/USDT      | SSV/USDT       | GAS/USDT      |
| LTC/USDT   | UNI/USDT      | DYDX/USDT     | CKB/USDT       | POWR/USDT     |
| TRX/USDT   | AVAX/USDT     | 1000XEC/USDT  | PERP/USDT      | TIA/USDT      |
| ETC/USDT   | ENJ/USDT      | GALA/USDT     | TRU/USDT       | CAKE/USDT     |
| LINK/USDT  | FLM/USDT      | CELO/USDT     | LQTY/USDT      | MEME/USDT     |
| XLM/USDT   | KSM/USDT      | AR/USDT       | USDC/USDT      | TWT/USDT      |
| ADA/USDT   | NEAR/USDT     | ARPA/USDT     | ID/USDT        | TOKEN/USDT    |
| XMR/USDT   | AAVE/USDT     | CTSI/USDT     | ARB/USDT       | ORDI/USDT     |
| DASH/USDT  | FIL/USDT      | LPT/USDT      | JOE/USDT       | STEEM/USDT    |
| ZEC/USDT   | RSR/USDT      | ENS/USDT      | AMB/USDT       | BADGER/USDT   |
| XTZ/USDT   | LRC/USDT      | PEOPLE/USDT   | TLM/USDT       | ILV/USDT      |
| BNB/USDT   | BEL/USDT      | ROSE/USDT     | LEVER/USDT     | NTRN/USDT     |
| ATOM/USDT  | AXS/USDT      | DUSK/USDT     | RDNT/USDT      | KAS/USDT      |
| ONT/USDT   | ALPHA/USDT    | FLOW/USDT     | HFT/USDT       | BEAMX/USDT    |
| IOTA/USDT  | ZEN/USDT      | IMX/USDT      | XVS/USDT       | 1000BONK/USDT |
| BAT/USDT   | SKL/USDT      | API3/USDT     | ETH/BTC        | PYTH/USDT     |
| VET/USDT   | GRT/USDT      | GMT/USDT      | BLUR/USDT      | SUPER/USDT    |
| NEO/USDT   | 1INCH/USDT    | APE/USDT      | EDU/USDT       | USTC/USDT     |
| QTUM/USDT  | CHZ/USDT      | WOO/USDT      | SUI/USDT       | ONG/USDT      |
| IOST/USDT  | SAND/USDT     | JASMY/USDT    | 1000PEPE/USDT  | ETHW/USDT     |
| THETA/USDT | ANKR/USDT     | OP/USDT       | 1000FLOKI/USDT | JTO/USDT      |
| ALGO/USDT  | RVN/USDT      | INJ/USDT      | UMA/USDT       | 1000SATS/USDT |
| ZIL/USDT   | SFP/USDT      | STG/USDT      | COMBO/USDT     | AUCTION/USDT  |
| KNC/USDT   | COTI/USDT     | SPELL/USDT    | NMR/USDT       | 1000RATS/USDT |
| ZRX/USDT   | CHR/USDT      | 1000LUNC/USDT | MAV/USDT       | ACE/USDT      |
| COMP/USDT  | MANA/USDT     | LUNA2/USDT    | XVG/USDT       | MOVR/USDT     |
| DOGE/USDT  | ALICE/USDT    | LDO/USDT      | WLD/USDT       | NFP/USDT      |
| SXP/USDT   | HBAR/USDT     | ICP/USDT      | PENDLE/USDT    | BTC/USDC      |
| KAVA/USDT  | ONE/USDT      | APT/USDT      | ARKM/USDT      | ETH/USDC      |
| BAND/USDT  | LINA/USDT     | QNT/USDT      | AGLD/USDT      | BNB/USDC      |
| RLC/USDT   | STMX/USDT     | FET/USDT      | YGG/USDT       | SOL/USDC      |
| MKR/USDT   | DENT/USDT     | FXS/USDT      | DODOX/USDT     | XRP/USDC      |
| SNX/USDT   | CELR/USDT     | HOOK/USDT     | BNT/USDT       | AI/USDT       |
| DOT/USDT   | HOT/USDT      | MAGIC/USDT    | OXT/USDT       | XAI/USDT      |
| DEFI/USDT  | MTL/USDT      | T/USDT        | SEI/USDT       | DOGE/USDC     |
| YFI/USDT   | OGN/USDT      | HIGH/USDT     | CYBER/USDT     | WIF/USDT      |
| BAL/USDT   | NKN/USDT      | MINA/USDT     | HIFI/USDT      | MANTA/USDT    |
| CRV/USDT   | 1000SHIB/USDT | ASTR/USDT     | ARK/USDT       | ONDO/USDT     |
| TRB/USDT   | BAKE/USDT     | PHB/USDT      | BICO/USDT      | LSK/USDT      |
| RUNE/USDT  | GTC/USDT      | GMX/USDT      | BIGTIME/USDT   | ALT/USDT      |

|               |               |                 |                 |               |
|---------------|---------------|-----------------|-----------------|---------------|
| JUP/USDT      | NEO/USDC      | QUICK/USDT      | HIPPO/USDT      | DEXE/USDT     |
| ZETA/USDT     | FIL/USDC      | NEIROETH/USDT   | 1000X/USDT      | PHA/USDT      |
| RONIN/USDT    | TIA/USDC      | RPL/USDT        | DEGEN/USDT      | DF/USDT       |
| DYM/USDT      | BOME/USDC     | AERGO/USDT      | BAN/USDT        | GRIFFAIN/USDT |
| SUI/USDC      | REZ/USDT      | POL/USDT        | AKT/USDT        | AI16Z/USDT    |
| OM/USDT       | ENA/USDC      | UXLINK/USDT     | SLERF/USDT      | ZEREBRO/USDT  |
| LINK/USDC     | ETHFI/USDC    | 1MBABYDOGE/USDT | STC/USDT        | BIO/USDT      |
| PIXEL/USDT    | 1000BONK/USDC | NEIRO/USDT      | 1000CHEEMS/USDT | COOKIE/USDT   |
| STRK/USDT     | BB/USDT       | KDA/USDT        | 1000WHY/USDT    | ALCH/USDT     |
| ORDI/USDC     | NOT/USDT      | FIDA/USDT       | THE/USDT        | SWARMS/USDT   |
| GLM/USDT      | TURBO/USDT    | FIO/USDT        | MORPHO/USDT     | SONIC/USDT    |
| PORTAL/USDT   | IO/USDT       | CATI/USDT       | CHILLGUY/USDT   | D/USDT        |
| TON/USDT      | ZK/USDT       | GHST/USDT       | KAIA/USDT       | PROM/USDT     |
| AXL/USDT      | MEW/USDT      | LOKA/USDT       | AERO/USDT       | S/USDT        |
| MYRO/USDT     | LISTA/USDT    | HMSTR/USDT      | ACX/USDT        | SOLV/USDT     |
| 1000PEPE/USDC | ZRO/USDT      | REI/USDT        | ORCA/USDT       | ARC/USDT      |
| METIS/USDT    | CRV/USDC      | COS/USDT        | MOVE/USDT       | AVAAI/USDT    |
| AEVO/USDT     | RENDER/USDT   | EIGEN/USDT      | RAYSOL/USDT     | TRUMP/USDT    |
| WLD/USDC      | BANANA/USDT   | DIA/USDT        | KOMA/USDT       | MELANIA/USDT  |
| VANRY/USDT    | RARE/USDT     | 1000CAT/USDT    | VIRTUAL/USDT    | VTHO/USDT     |
| BOME/USDT     | G/USDT        | SCR/USDT        | SPX/USDT        | ANIME/USDT    |
| ETHFI/USDT    | SYN/USDT      | GOAT/USDT       | ME/USDT         | VINE/USDT     |
| AVAX/USDC     | SYS/USDT      | MOODENG/USDT    | AVA/USDT        | PIPPIN/USDT   |
| 1000SHIB/USDC | VOXEL/USDT    | SAFE/USDT       | DEGO/USDT       | VVV/USDT      |
| ENA/USDT      | BRETT/USDT    | SANTOS/USDT     | VELODROME/USDT  | BERA/USDT     |
| W/USDT        | ALPACA/USDT   | TROY/USDT       | MOCA/USDT       | TST/USDT      |
| WIF/USDC      | POPCAT/USDT   | PONKE/USDT      | VANA/USDT       | LAYER/USDT    |
| BCH/USDC      | SUN/USDT      | COW/USDT        | PENGU/USDT      | HEI/USDT      |
| TNSR/USDT     | VIDT/USDT     | CETUS/USDT      | LUMIA/USDT      | B3/USDT       |
| SAGA/USDT     | NULS/USDT     | 1000000MOG/USDT | USUAL/USDT      | IP/USDT       |
| LTC/USDC      | DOGS/USDT     | GRASS/USDT      | AIXBT/USDT      | GPS/USDT      |
| NEAR/USDC     | MBOX/USDT     | DRIFT/USDT      | FARTCOIN/USDT   | SHELL/USDT    |
| TAO/USDT      | CHESS/USDT    | SWELL/USDT      | KMNO/USDT       |               |
| OMNI/USDT     | FLUX/USDT     | ACT/USDT        | CGPT/USDT       |               |
| ARB/USDC      | BSW/USDT      | PNUT/USDT       | HIVE/USDT       |               |

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